

2 Pick up and do the warm up

as soon as you get to part 1c, have <u>one</u> person in your group pick up any needed graphing calculators <u>from MR.C</u>.

Warm Up Notes

1a. Can -16 be used as an input for $f(x) = \sqrt{x}$?

No therefore -16 is not part of the domain of this function

b. Find two more values that are not part of the domain of f(x)

- c. Make a sketch of the graph \rightarrow of $f(x) = \sqrt{x}$
- d. Describe the domain and verify with the "TABLE" on your Graphing Calculator.

 $() \leq \chi \leq \infty$

2.a. make a sketch of $g(x) = -(x-z)^2$

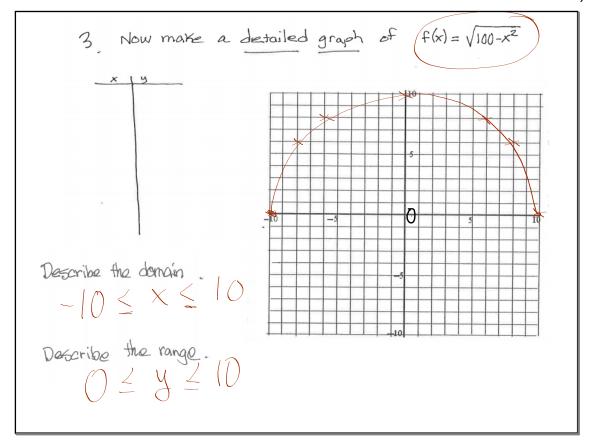


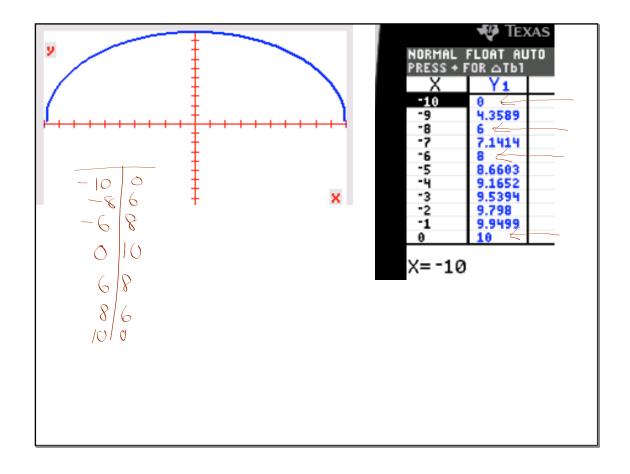
b. What is the domain?



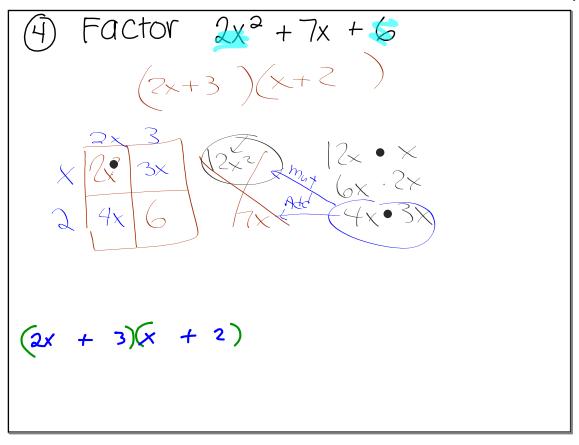
c. What is the range? (of possible x-values)







December 07, 2018



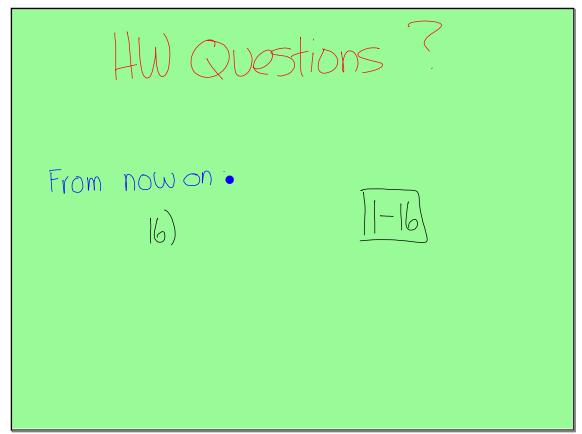
$$(2x^{3})(-5x^{1}) = -10x^{4}$$

$$(4x^{2})(0x^{2})$$

$$(2x^{3})(-5x^{1}) = -10x^{4}$$

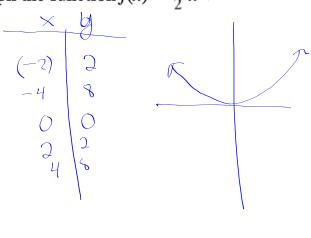
$$(2x^{3})(-$$

I December 07, 2018

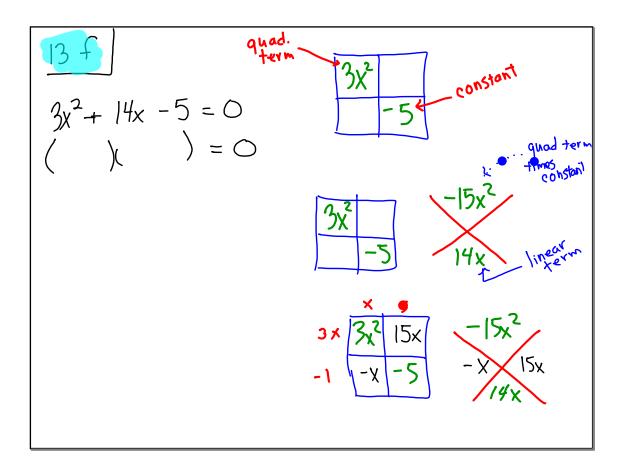


1-20

Make a table and graph the function $f(x) = \frac{1}{2}x^2$.



$$3(x-2) - 2(x+7) = 2x + 17$$
$$3x - 6 - 2x + 14 = 2x + 17$$
$$x + 8 = 2x + 17$$
$$-9 = x$$



$$\chi^2 - 5\chi = 0$$

factor out GCF

$$y=3x+15$$
 b) $y=3-3x$

(a)
$$y = 5x - 2$$

(a)
$$y = 5x - 2$$

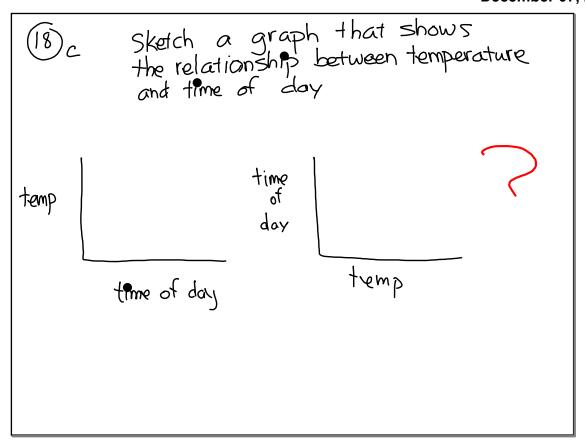
(b) $find_{1} x = 2$
 $y = 5(2) - 2$
 $= 8$

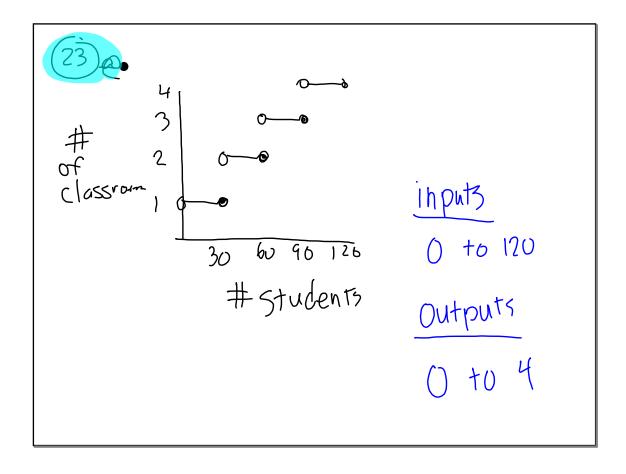
$$f(x) = x^2 + 2x + 1$$

$$(a)$$
 $f(3) =$

(a)
$$f(3) =$$

(b) $f(-4) =$
(c) $f(-22.872) =$





December 07, 2018

when you turn in the HW Solutions pick up a Syllabus quick [CQ

everyone must turn their desks forward

when everyone in your pod has turned it in, the return desks to normal position.

TODAY:

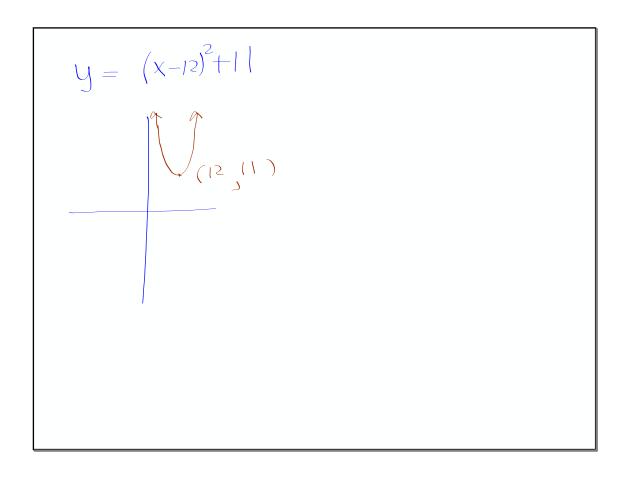
Find Domain
and Range

of a function given either its graph or its equation.

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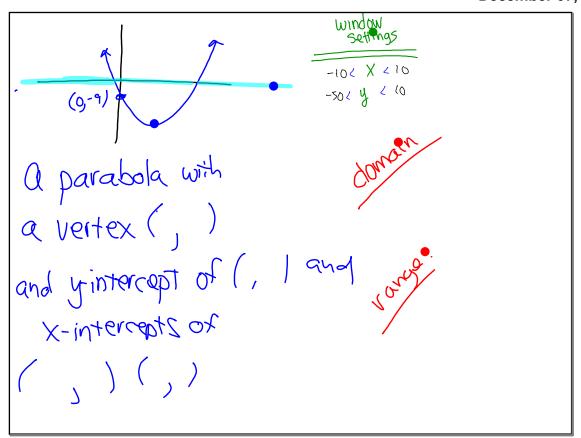
Sketch & Analyze
$$y = (x+1)(x-9)$$

$$y =$$



Many days we will use what are called "Core Problems" todevelop your understanding of the skills and concepts.

I want you to record this process in your notes.



a)
$$y = (x+1)(x-9)$$

describe

the graph

b) What window?

c) How are settings related to domain and range?

Vertex, x-intercepts, and y-intercepts

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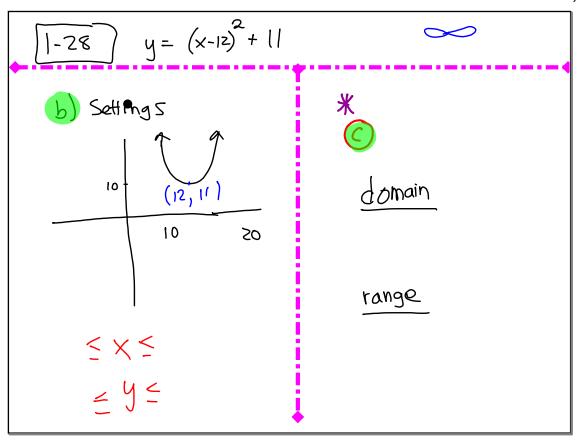
B.B.

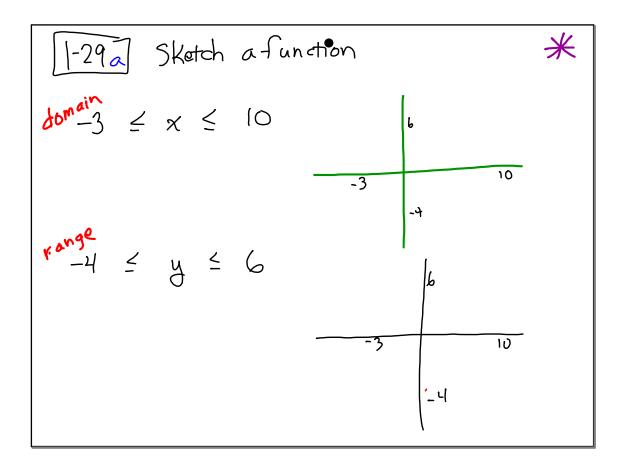
continue to [-28] and [-29]

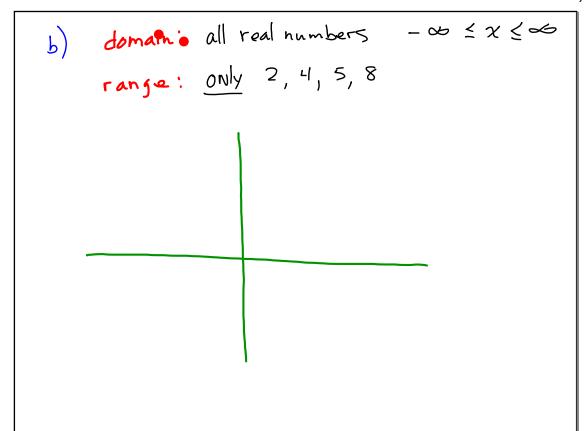
sketch

- Be sure everyone in your
group 15 Solid before
anyone goes on to #[-29]

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$$5x - y = 35$$

$$5x - y = 35$$
 $3x + y = -3$

Assignment

pdf save

1....34-36, 37acde, 38, 40a

If getting a graphing calculator is a hardship at this time for your family, then see me about getting a loaner from the math department. See me before you leave school today.